

## **Structures Level I**

### **Course Objectives:**

The Structures Level I is a two day course designed to give participants the skills and knowledge required to become a competent bridge and culvert construction inspector. Topics include – Plan Interpretation, Geotechnical Investigation, Bearing Piles, Structural Excavation, Concrete Placement and Testing, Structural Steel, Bridge Decks, Falsework, 3-Sided Structures, Reinforcement, Metal Arch Structures, Retaining Walls, and Specification of Bridge and Culvert Construction.

Level I qualification will be required to be maintained for QC/QA inspectors on a KYTC project involving Structures.

**Prerequisites:** Concrete ACI Level I

### **Who should attend:**

State, Contractor, and Consultant personnel who are or will be responsible for performing and/or inspecting work within the topics described above on KYTC projects.

### **When and where will the course be held:**

Date	Class Site	Location
January 6-7	District 7 Conference Room	Lexington
January 20-21	District 5 Conference Room	Louisville
February 3-4	Morehead Conf. Rm - 111 E. First St.	Morehead
February 17-18	Crew Facility	Smithland
March 3-4	Jenny Wiley State Park	Prestonburg

### **What is the cost and how to register:**

- There is no registration fee.
- Registration form is attached and should be submitted at least 2 weeks prior to the course. Course space is limited, so early registration submittal is encouraged to ensure enrollment in your preferred course.
- Registrants will be mailed a confirmation including directions to the training center after registration form is received.

### **What is the cancellation policy:**

- Cancellation must be received 72 hours prior to the start of the course.
- Individuals registered for one course may reschedule to another course if space is available.

### **For Questions, Please Contact:**

Nasby Stroop, P.E. Division of Construction  
502-564-4780 or Email: [nasby.stroop@ky.gov](mailto:nasby.stroop@ky.gov)

### **Send all registration forms to:**

Amy New, Division of Construction  
200 Mero Street Frankfort, KY 40622  
Or  
Fax: 502-564-8388

# **Highway Structural Inspection – Level One**

## **Qualification Course Outline**

(Class requirement: Students to bring their *Spec Book, Pencil, Paper, and Calculator*)

### **Day 1**

- 8:30 Introduction and Overview of Course**
- 8:45 Basic Bridge/Culvert Elements and Plan Interpretation**
- 9:15 Staking, Layout, etc.**
- 9:30 Break**
- 9:40 Geotechnical Investigation - Darrin**
- 10:15 Bearing Piles**
- 10:50 Break**
- 11:00 Structural Excavation**
- 11:30 Concrete Placement – General**
- 12:00 Lunch**
- 1:00 Concrete Acceptance and Testing**  
Class Exercise
- 2:00 Break**
- 2:10 Prestress Part I**
- 2:45 Prestressed Concrete Part II**
- 3:20 Break**
- 3:30 3-Sided Precast Structures**
- 4:00 Adjourn for the Day**



# **Highway Structural Inspection – Level One** **Qualification Course Outline - Continued**

## **Day 2**

- 8:30 Structural Steel**
- 9:15 Reinforcing Steel**
- 9:50 Break**
- 10:00 Construction Joints**
- 10:30 Falsework**
- 11:00 Break**
- 11:10 Concrete Placement – Bridge Decks**  
Video
- 12:00 Lunch**
- 1:00 Fences, Formliners, and other Misc. Items**
- 1:45 Metal Arch and other Misc. Structures**
- 2:15 Question and Answers**
- 2:30 Break**
- 2:45 Examination**
- 4:00 Class is Finished**



# Highway Structural Inspector-Level I

Location

Date

## REGISTRATION FORM

**INSPECTOR ID#:** \_\_\_\_\_ (3 OR 4 DIGIT CODE FROM CURRENT QUALIFICATION CARD ~ N/A IF YOU HAVE NOT BEEN PREVIOUSLY QUALIFIED)

NAME: (Last, First, M.I.) \_\_\_\_\_

DATE OF BIRTH: (mm/dd/yy) \_\_\_\_\_

HOME ADDRESS: (Apt #) \_\_\_\_\_

**\*CHANGE ( )** (Street) \_\_\_\_\_

(City) \_\_\_\_\_

(State, Zip) \_\_\_\_\_

Phone: (\_\_\_\_) \_\_\_\_\_ Email: \_\_\_\_\_

**\*CHECK IF CHANGED FROM HOME ADDRESS ON RECORD.**

COMPANY ADDRESS: (Company Name) \_\_\_\_\_

**\*CHANGE ( )** (State Employees) District \_\_\_\_\_ Crew \_\_\_\_\_

(Address) \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Phone: (\_\_\_\_) \_\_\_\_\_ Email: \_\_\_\_\_

**\*CHECK IF CHANGED FROM COMPANY ADDRESS ON RECORD.**